



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

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August 3, 2011

Mr. Julius Genachowski
Chairman
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: FCC File No. SAT-MOD-201011118-00239

Dear Mr. Genachowski,

This letter is written on behalf of the Design Division of the Tennessee Department of Transportation (TDOT). We would like to express our concern about the LightSquared system proposed to operate the ancillary terrestrial component of their mobile satellite service in the bands adjacent to those used by GPS.

TDOT has made a significant investment in GPS technology over the past decade. We have a statewide network of permanently mounted GPS base stations that provides real time corrections to all sectors. We also have survey grade GPS equipment in use in each TDOT Administrative Region. The \$1.5 million investment in GPS technology has been funded through TDOT Fixed Asset purchases.

The potential widespread implementation of 4G/LTE broadband as proposed by LightSquared may interfere with our GPS technology. We would not be able to quickly fund new equipment, additional filtering equipment or retrofit existing equipment to compensate for such interference. Loss of the productivity gained by the use of GPS technology in road design and construction is a very real concern if licenses are granted to implement this technology.

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Advancing broadband deployment should not come at the expense of previously established, critical assets. GPS is an integral part of Tennessee's infrastructure. We would request that any organization proposing services in bands immediately adjacent to the radio navigation satellite service band bear the responsibility of eliminating interference to GPS.

Thank you for allowing us to comment on the proposed broadband deployment. If you have any questions you would like to discuss, please do not hesitate to contact me.

Sincerely,



Carolyn A. Stonecipher, P.E.

Director

Design Division

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